

Conversation Contents

GSENM Paleontology Maps

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- /8. GSENM Paleontology Maps/3.1 GSENM_BriefingMap_032217_Coal _DRAFT.pdf

"Staszak, Cynthia" <cstaszak@blm.gov>

From: "Staszak, Cynthia" <cstaszak@blm.gov>
Sent: Thu May 04 2017 13:33:09 GMT-0600 (MDT)
To: Clayson Dirk <dirk@kane.utah.gov>, Leland Pollock <Leland.pollock@garfield.utah.gov>, mnoel@kanab.net, Link Chynoweth **Ex. 6** .com>, Keith Watts <keith@earth-tours.com>, Ganaver Timican <gtimican@kaibabpaiute-nsn.gov>, Ganaver Timican <lshearer@kaibabpaiute-nsn.gov>, Kevin Heaton <kevin.heaton@usu.edu>, Phil Hanceford <phil_hanceford@tws.org>, "Friedman, Mike" <mikef@adventurepartners.net>, Julie Howard <bouldermountainconsulting@gmail.com>, "McKee, Norm" <paws@scinternet.net>, Randall B Irmis <irmis@umnh.utah.edu>, Doug Reagan <Ex. 6 .com>, Wes Thompson <westhompson@bio-west.com>, Noel Poe <noel@gsenm.org>, Nicole Croft <nicolette@gsenm.org>
Subject: GSENM Paleontology Maps
Attachments: PaleoSensitivity_PJ_1.pdf PaleoSensitivity_PJ_2.pdf

All:

Attached please find 2 maps of Paleontological Resources on GSENM. The Paleo Sensitivity (PFYC) Potential Fossil Yield Category map is a model of likelihood for Paleontological resources. As you can see from the map, the center of the Monument/ Karapowit region , is in the highest sensitivity area (5) for fossil resources, surrounded by the next highest level (4).

The 2nd map shows the inventoried fossil resources on GSENM. Please note that this is only those resources that we have inventoried; with only about 6% of the monument surveyed (120,000 acres). Within that 6 % of the Monument surveyed, we have discovered 12 new species of dinosaurs.

Cindy Staszak
Monument Manager
Grand Staircase-Escalante National Monument
669 S. Hwy 89-A
Kanab, UT 84741

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Paul Leatherbury
GIS Specialist
Bureau of Land Management
Grand Staircase Escalante National Monument
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435-644-1229

Nicole Croft <nicole@gsemn.org>

From: Nicole Croft <nicole@gsemn.org>
Sent: Thu May 04 2017 13:36:34 GMT-0600 (MDT)
To: "Staszak, Cynthia" <cstaszak@blm.gov>
Clayson Dirk <dirk@kane.utah.gov>, Leland Pollock
<Leland.pollock@garfield.utah.gov>, <mnoel@kanab.net>, Link
Chynoweth **Ex. 6** .com>, Keith Watts
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<gtimican@kaibabpaiute-nsn.gov>, Ganaver Timican
<lshearer@kaibabpaiute-nsn.gov>, Kevin Heaton
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Doug Reagan <**Ex. 6** .com>, Wes Thompson
<westhompson@bio-west.com>, Noel Poe <noel@gsemn.org>
Subject: Re: GSENM Paleontology Maps

Hi Cindy,

Thank you for sending all of this information.

We all appreciate your time,
Nicole

On Thu, May 4, 2017 at 1:33 PM, Staszak, Cynthia <cstaszak@blm.gov> wrote:

All:

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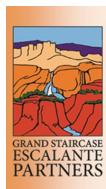
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--
Nicole Croft
Executive Director
Grand Staircase Escalante Partners

Grand Staircase Escalante Partners is committed to preserving and protecting the vast landscape of Grand Staircase-Escalante National Monument for the use and enjoyment of present and future generations.



"Staszak, Cynthia" <cstaszak@blm.gov>

From: "Staszak, Cynthia" <cstaszak@blm.gov>
Sent: Thu May 04 2017 14:24:36 GMT-0600 (MDT)
Clayson Dirk <dirk@kane.utah.gov>, Leland Pollock <Leland.pollock@garfield.utah.gov>, mnoel@kanab.net, Link Chynoweth Ex. 5 Deliberative Process Privilege <link@earth-tours.com>, Keith Watts <keith@earth-tours.com>, Ganaver Timican <gtimican@kaibabpaiute-nsn.gov>, Ganaver Timican <lshearer@kaibabpaiute-nsn.gov>, Kevin Heaton

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Doug Reagan <Ex. 6 [REDACTED].com>, Wes Thompson
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Nicole Croft <nicolette@gsemn.org>
Subject: Re: GSENM Paleontology Maps
Attachments: GSENM_BriefingMap_032217_Coal_DRAFT.pdf

ALL:

Another map that has been requested is a map of the 1996 Federal Coal Leases on GSENM. Attached below is a working draft of that map

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Dirk Clayson <dirk@kanab.net>

From: Dirk Clayson <dirk@kanab.net>
Sent: Fri May 05 2017 09:41:19 GMT-0600 (MDT)
To: Cindy Staszak <cstaszak@blm.gov>
Subject: Re: GSENM Paleontology Maps

Thanks for all the maps you have sent.

Best Regards,

Dirk Clayson
435-616-1234

On May 4, 2017, at 2:24 PM, Staszak, Cynthia <cstaszak@blm.gov> wrote:

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"Staszak, Cynthia" <cstaszak@blm.gov>

From: "Staszak, Cynthia" <cstaszak@blm.gov>
Sent: Fri May 05 2017 09:47:54 GMT-0600 (MDT)
To: Dirk Clayson <dirk@kanab.net>
Subject: Re: GSENM Paleontology Maps

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Dirk Clayson

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Doug <Ex. 6 [REDACTED].com>

From: Doug <Ex. 6 [REDACTED].com>
Sent: Fri May 05 2017 12:29:38 GMT-0600 (MDT)
To: "Staszak, Cynthia" <cstaszak@blm.gov>
CC: "Crutchfield, Larry" <lcrutchf@blm.gov>
Subject: Re: GSENM Paleontology Maps

When are you going to tell the MAC about the meeting in August?

On May 4, 2017, at 1:33 PM, Staszak, Cynthia <cstaszak@blm.gov> wrote:

All:

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"Staszak, Cynthia" <cstaszak@blm.gov>

From: "Staszak, Cynthia" <cstaszak@blm.gov>
Sent: Fri May 05 2017 12:30:54 GMT-0600 (MDT)
To: Doug <**Ex. 6** @.com>
CC: "Crutchfield, Larry" <lcrutchf@blm.gov>
Subject: Re: GSENM Paleontology Maps

I am planning on calling MAC members this weekend.

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Doug Ex. 5 Deliberative Process Privilege **.com>**

From: Doug Ex. 5 Deliberative Process Privilege .com>
Sent: Fri May 05 2017 14:38:27 GMT-0600 (MDT)
To: "Staszak, Cynthia" <cstaszak@blm.gov>
CC: "Crutchfield, Larry" <lcrutchf@blm.gov>
Subject: Re: GSENM Paleontology Maps

Great. I know that some people are probably making plans to attend the meeting.

On May 5, 2017, at 12:30 PM, Staszak, Cynthia <cstaszak@blm.gov> wrote:

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Dirk Clayson <Ex. 5 Deliberative Process Privilege .com>

From: Dirk Clayson Ex. 5 Deliberative Process Privilege .com>
Sent: Fri May 05 2017 14:55:26 GMT-0600 (MDT)
To: "Staszak, Cynthia" <cstaszak@blm.gov>
Subject: Re: GSENM Paleontology Maps

I think that's it for now. The maps were helpful. Thanks.

Happy Trails,
Dirk Clayson
435-616-1234

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Randall B Irmis <irmis@umnh.utah.edu>

From: Randall B Irmis <irmis@umnh.utah.edu>
Sent: Sun May 07 2017 14:22:17 GMT-0600 (MDT)
To: "Staszak, Cynthia" <cstaszak@blm.gov>, Clayson Dirk <dirk@kane.utah.gov>, Leland Pollock <Leland.pollock@garfield.utah.gov>, "mnoel@kanab.net" <mnoel@kanab.net>, Link Chynoweth <Ex. 6 [REDACTED].com>, Keith Watts <keith@earth-tours.com>, Ganaver Timican <gtimican@kaibabpaiute-nsn.gov>, Ganaver Timican <lshearer@kaibabpaiute-nsn.gov>, Kevin Heaton <kevin.heaton@usu.edu>, Phil Hanceford <phil_hanceford@tws.org>, "Friedman, Mike" <mikef@adventurepartners.net>, Julie Howard <bouldermountainconsulting@gmail.com>, "McKee, Norm" <paws@scinternet.net>, Doug Reagan <Ex. 6 [REDACTED].com>, Wes Thompson <westhompson@bio-west.com>, Noel Poe <noel@gsenm.org>, Nicole Croft <nico@gsenm.org>
Subject: RE: GSENM Paleontology Maps

Dear Cynthia, Thank you so much for sending out these very valuable data. I'd like to add that in addition to the 12 new species of dinosaurs discovered and scientifically named, there are at least 6 more species of dinosaurs that we have found fossils of that are new species, but the studies and formal scientific naming are still under way. Dinosaurs of course get lots of notoriety, but of equal importance are the many other fossil discoveries in GSENM, which

include at least eleven new species of mammal, three new species of marine reptile (plesiosaurs), two new species of crocodile, three new species of turtle, one new species of lizard, several new species of sharks and bony fish, and several thousand of fossil specimens that are now in publicly-accessible museum collections. +95% of these discoveries have been made since 1996. As you can see from the maps that Cynthia sent out, most of the monument has the two highest ratings for likelihood of paleontological resources, and many of the above discoveries come from throughout the Kaiparowits Plateau. That said, there are numerous significant fossils from nearly every portion of the monument. Cynthia - do you happen know the total number of paleontological sites represented by the green dots on the map? As the paleontological representative on the MAC, do let me know if there are any further questions regarding paleontological resources on the monument. Regards, Randy Irmis

From: Staszak, Cynthia [cstaszak@blm.gov]

Sent: Thursday, May 04, 2017 1:33 PM To: Clayson Dirk; Leland Pollock; mnoel@kanab.net; Link Chynoweth; Keith Watts; Ganaver Timican; Ganaver Timican; Kevin Heaton; Phil Hanceford; Friedman, Mike; Julie Howard; McKee, Norm; Randall B Irmis; Doug Reagan; Wes Thompson; Noel Poe; Nicole Croft Subject: GSENM Paleontology Maps All: Attached please find 2 maps of Paleontological Resources on GSENM. The Paleo Sensitivity (PFYC) Potential Fossil Yield Category map is a model of likelihood for Paleontological resources. As you can see from the map, the center of the Monument/ Karapowitz region , is in the highest sensitivity area (5) for fossil resources, surrounded by the next highest level (4). The 2nd map shows the inventoried fossil resources on GSENM. Please note that this is only those resources that we have inventoried; with only about 6% of the monument surveyed (120,000 acres). Within that 6 % of the Monument surveyed, we have discovered 12 new species of dinosaurs. Cindy Staszak Monument Manager Grand Staircase-Escalante National Monument 669 S. Hwy 89-A Kanab, UT 84741 Office: 435 644-1240 Cell: 435 691-4340 Fax: 435 644-1250 Paul Leatherbury GIS Specialist Bureau of Land Management Grand Staircase Escalante National Monument Kanab, UT 84741 435-644-1229